

John Wright

List of Publications by Year in descending order

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29
papers

4,713
citations

932766

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h-index

887659

17
g-index

29
all docs

29
docs citations

29
times ranked

4144
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized approach to matched filtering using neural networks. Physical Review D, 2022, 105, .	1.6	14
2	On the Global Geometry of Sphere-Constrained Sparse Blind Deconvolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 999-1008.	9.7	2
3	Principal component pursuit for exposure pattern recognition: an application to persistent organic pollutants and leukocyte telomere length. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
4	Compressed Sensing Image Reconstruction of Scanning Electrochemical Microscopy Measurements Carried Out at Ultrahigh Scan Speeds Using Continuous Line Probes. Analytical Chemistry, 2021, 93, 12574-12581.	3.2	2
5	Convolutional Phase Retrieval via Gradient Descent. IEEE Transactions on Information Theory, 2020, 66, 1785-1821.	1.5	13
6	Structured Local Optima in Sparse Blind Deconvolution. IEEE Transactions on Information Theory, 2020, 66, 419-452.	1.5	20
7	Probing the Speed Limits of Scanning Electrochemical Microscopy with In situ Colorimetric Imaging. ChemElectroChem, 2020, 7, 2424-2432.	1.7	1
8	Geometry and Symmetry in Short-and-Sparse Deconvolution. SIAM Journal on Mathematics of Data Science, 2020, 2, 216-245.	1.0	9
9	Design and operation of a scanning electrochemical microscope for imaging with continuous line probes. Review of Scientific Instruments, 2019, 90, 083702.	0.6	4
10	A Flexible Phased-Array Architecture for Reception and Rapid Direction-of-Arrival Finding Utilizing Pseudo-Random Antenna Weight Modulation and Compressive Sampling. IEEE Journal of Solid-State Circuits, 2019, 54, 1315-1328.	3.5	12
11	A Reconfigurable Architecture Using a Flexible LO Modulator to Unify High-Sensitivity Signal Reception and Compressed-Sampling Wideband Signal Detection. IEEE Journal of Solid-State Circuits, 2018, 53, 1577-1591.	3.5	14
12	A Geometric Analysis of Phase Retrieval. Foundations of Computational Mathematics, 2018, 18, 1131-1198.	1.5	144
13	Scanning Line Probe Microscopy: Beyond the Point Probe. Analytical Chemistry, 2018, 90, 11531-11537.	3.2	7
14	An 8-Element, 1-3GHz Direct Space-to-Information Converter for Rapid, Compressive-Sampling Direction-of-Arrival Finding Utilizing Pseudo-Random Antenna-Weight Modulation. , 2018, , .		1
15	Complete Dictionary Recovery Over the Sphere II: Recovery by Riemannian Trust-Region Method. IEEE Transactions on Information Theory, 2017, 63, 885-914.	1.5	49
16	Complete Dictionary Recovery Over the Sphere I: Overview and the Geometric Picture. IEEE Transactions on Information Theory, 2017, 63, 853-884.	1.5	110
17	Using negative curvature in solving nonlinear programs. Computational Optimization and Applications, 2017, 68, 479-502.	0.9	8
18	A Direct RF-to-Information Converter for reception and wideband interferer detection employing pseudo-random LO modulation. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
19	On the Global Geometry of Sphere-Constrained Sparse Blind Deconvolution. , 2017, , .		26
20	Theory and Design of a Direct Space-to-Information Converter for Rapid Detection of Interferer DoA. , 2017, , .		4
21	Band-pass compressive sampling as an enabling technology for rapid wideband RF spectrum sensing. , 2016, , .		4
22	A compressed-sampling time-segmented quadrature analog-to-information converter for wideband rapid detection of up to 6 interferers with adaptive thresholding. , 2016, , .		8
23	Complete dictionary recovery over the sphere. , 2015, , .		31
24	Wideband Rapid Interferer Detector Exploiting Compressed Sampling With a Quadrature Analog-to-Information Converter. IEEE Journal of Solid-State Circuits, 2015, 50, 3047-3064.	3.5	52
25	On the local correctness of ℓ_1 -minimization for dictionary learning. , 2014, , .		12
26	Compressive principal component pursuit. , 2012, , .		27
27	Principal Component Pursuit with reduced linear measurements. , 2012, , .		20
28	Image Super-Resolution Via Sparse Representation. IEEE Transactions on Image Processing, 2010, 19, 2861-2873.	6.0	4,066
29	Dense error correction for low-rank matrices via Principal Component Pursuit. , 2010, , .		50